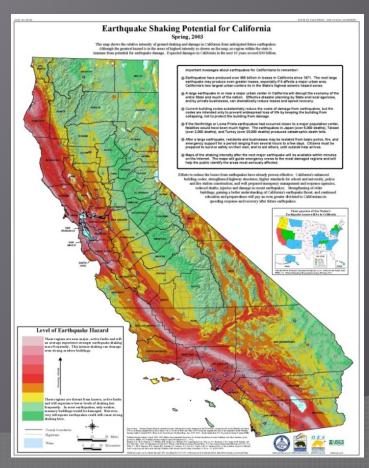
With a focus on lessons learned from the 2011 Japan Earthquake

EMERGENCY PLANNING UPDATES

Today's Topics

- Earthquake Update
- Tsunami Update
- NPP Update Overview
 - ETE Update
 - Plume Monitoring
 - IPZ Updates
 - New Regulations
 - Other Projects
 - Fukushima Lessons Learned
- Training, Drills, and Exercises

Earthquake Update





Japan Earthquake

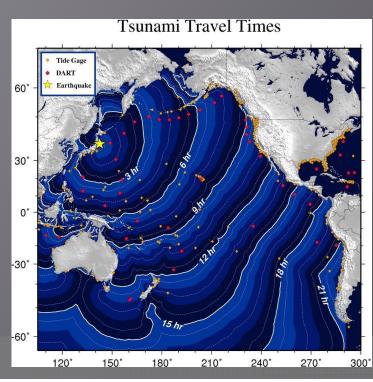
9.0 in magnitude centered in a subduction zone.

- Buildings and infrastructure performed as designed.
 - Majority of damage due to tsunami.
- Resulted in secondary hazards

Earthquake Planning Update

- Reaffirmed importance of Earthquake Plan
- Secondary hazard awareness
- Infrastructure Checks roads, bridges
- Dam and Levee verification checks
- Backup communications and power options
- Incorporation of Earthquake analysis into Evacuation Times Estimate (ETE)

Tsunami Update





Japan Tsunami

- Caused majority of damage and deaths.
- Struck closest areas approximately 26 minutes after earthquake.
- 101 designated tsunami evacuation sites were hit.
- Many did not heed evacuation orders.
- Debris became secondary hazard.

Tsunami Update

- Reaffirms importance of tsunami education
- Reaffirms conservative tsunami inundation mapping.
- Plan updated to include actions taken during tsunami.
- © County developing tsunami outreach and tsunami signage campaign.



Tsunami Debris

- NOAA is leading efforts
- Track, assess, and reduce impacts of debris.
- Debris fields have dispersed.
- Large items and hazardous materials still an issue.
- Beach cleanups and debris reporting may be necessary.



Nuclear Power Plant Planning Updates



Emergency Planning Zone (EPZ) Description

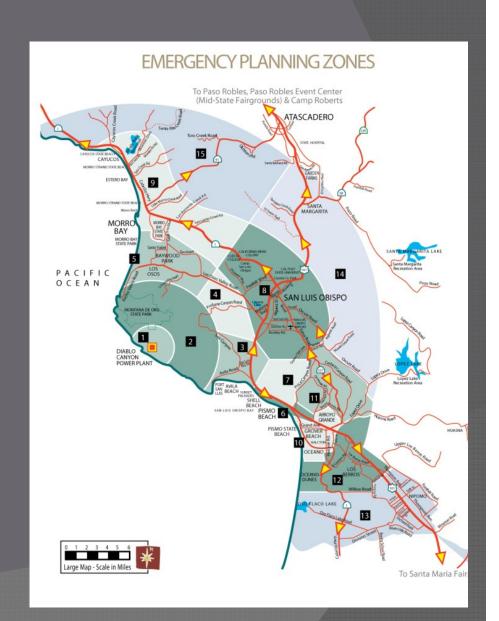
- Area surrounding a nuclear power plant where protective actions may be issued.
- Federal requirement for EPZ is a10 mile radius.
- SLO County adopted an expanded area
- EPZ is broken into Protective ActionZones (PAZ) for planning purposes.



Public Education Zone (PEZ) Description

Stretches beyondEmergency PlanningZone.

- Protective actions are not expected to be needed.
- Residents are provided annual emergency information.



Ingestion Pathway Zone (IPZ) Description

- A 50 mile radius around a nuclear power plant.
- IPZ is segmented into Agricultural Areas
- To facilitate protections of food and water supplies from radioactive contamination.
- Food, water, livestock, may be held, or quarantined until testing can be conducted.

Evacuation Times Estimate (ETE)

- To assist in evacuation planning and decision making
- Provides population information and variations to assist evacuation decisions.
- Additional scenarios involving earthquakes were analyzed.
- SLO County and DCPP are proactive in updating and enhancing the document ahead of regulatory requirements.

Plume Monitoring

- Plume modeling software and abilities are essential for radiological emergencies.
- Plume modeling allows decision makers to focus actions.
- Significant system enhancements have recently been completed.
- Enhancements include input of additional meterological data as well as SODAR stations to identify upper air patterns.

Ingestion Pathway Zone Plan (IPZ) Enhancements

- Update and realignment of the Ingestion Pathway Zone and Agricultural Areas using GIS.
- Update and redistribution of Agricultural Brochure
- State and local plan improvements to increase consistency and identify roles and responsibilities.

New Regulations

- Updated regulations governing nuclear power plant emergency response -Released in December.
- Regulations predate emergency at Fukushima.
- Regulations will be implemented by early 2014.
- SLO County plans currently meet many of the new requirements

New Regulation Summary

- Alert and Notification System Changes
- Back-up Route Alerting Changes
- Facility Inspections
- Exercise Cycle/Frequency
- Scenario Variation and Challenges
- NIMS/ICS Incorporation

Additional NPP Projects

• Redistribution of agency responsibilities.

Agricultural partner workshops and education.

Hostile action plan updates

Recovery plan enhancements, training and exercises.

Post Fukushima Lessons Learned

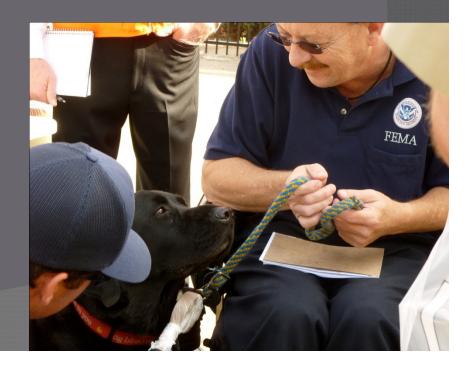
- Actively participating in formal and informal Fukushima lessons learned opportunities.
- Ideas, issues, and recommendations will be integrated into plans.
- Many issues that have been identified are already accommodated for in the plans.
- SLO County strives to exceed federal planning standards, will continue to do so.

Training and Exercises



Nuclear Power Plant Training and Exercises

- 5,576 hours of training conducted by OES during 2011
- Exercises test the plans and capabilities
- Formally evaluated by FEMA
- FEMA did not identify any areas that needed correction.



Recent Exercises

- 2008 Tsunami Warning & Radiological Release
- 2009 Emergency Worker Monitoring and Decon
- 2009 Evacuee Monitoring and Decontamination
- 2010 100 Year Storm & Radiological Release
- 2011 Personnel Injury and Radiological Contamination
- 2011 Earthquake and Radiological Release
- 2011 Hostile Action
- 2011 Evacuee Monitoring and Decontamination Exercise

For Additional Emergency Planning Information:

County Office of Emergency Services 781-5011

www.slocounty.ca.gov/OES

